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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305179A / Integrated Broadcast Service (IBS)							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	0.459	0.382	5.430	-	5.430	-	-	-	-	-	-
EF4: Integrated Broadcast System	-	0.459	0.382	5.430	-	5.430	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports the Joint Services and the Special Operations Command (SOCOM). The IBS transmits worldwide time-sensitive tactical and strategic intelligence and targeting data to all echelons of Joint Service operational users. The JPO is responsible for coordinating modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts in support of Air and Missile Defense, Long Range Precision Fires, Soldier Lethality, and Network Command, Control, Communications and Intelligence Cross Functional Teams and Tactical Intelligence Targeting Access Node. The JPO is pursuing a next generation non-developmental item to replace the existing Joint Tactical Terminals (JTT) due to obsolescence and sustainment costs with current JTT configurations. The transmit/receive-capable JTT systems currently consist of the JTT-Senior and JTT-IBS configurations. The JTT is the official IBS producer system, and ensures continued IBS interoperability to a variety of tactical producers/consumers across the Joint Services Program.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.459	0.467	0.500	-	0.500
Current President's Budget	0.459	0.382	5.430	-	5.430
Total Adjustments	0.000	-0.085	4.930	-	4.930
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-0.085			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	4.930	-	4.930

Change Summary Explanation

FY22 funds are increased to initiate Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0305179A / <i>Integrated Broadcast Service (IBS)</i>				Project (Number/Name) EF4 / <i>Integrated Broadcast System</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
EF4: <i>Integrated Broadcast System</i>	-	0.459	0.382	5.430	-	5.430	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports the Joint Services and the Special Operations Command (SOCOM). The IBS transmits worldwide time-sensitive tactical and strategic intelligence and targeting data to all echelons of Joint Service operational users. The JPO is responsible for coordinating modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts. The JPO is pursuing a next generation non-developmental item to replace the existing Joint Tactical Terminals (JTT) and performs JTT life cycle program management and technical fixes. The IBS network uses Type-1 encryption, Common Interactive Broadcast (CIB), and Common Message Format (CMF). Funds support acquisition related technical development, requirements, interoperability, testing and integration of next generation JTT systems and components.

FY 2022 funds will be used for government testing, integration and certification of the next generation JTT and to support development for the IBS modernization efforts.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2020	FY 2021	FY 2022
Title: Support Costs and Management Services	0.459	0.382	0.500
Description: Testing support			
FY 2021 Plans: Will continue testing support.			
FY 2022 Plans: Will continue testing support.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase due to inflation.			
Title: Modernization Efforts	-	-	4.930
Description: Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts.'			
FY 2022 Plans: Funds are required to initiate Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts.			
FY 2021 to FY 2022 Increase/Decrease Statement:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Funds are increased to initiate Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts.			
Accomplishments/Planned Programs Subtotals	0.459	0.382	5.430

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• V29600: <i>JTT/CIBS-M</i>	7.686	5.304	5.463	-	5.463	-	-	-	-	-	-

Remarks

FY 2022 funds continue support of the modernized JTT acquisition initiated in FY 2020 as well as the IBS modernization efforts initiated in FY2022.

D. Acquisition Strategy

The Integrated Broadcast Service (IBS) was designed to consolidate legacy broadcasts into an interoperable set of broadcasts that can carry threat warning and situational data to both users and producers. The requirement for IBS is documented in the Integrated SIGINT Information Mission Needs Statement (MNS) validated by the Joint Requirements Oversight Council (JROC) Memo (JROCM) 115-95 on 15 September 1995. The JTT program is an effort to provide common tactical terminals capable of receiving and transmitting into the IBS UHF broadcasts. The House Permanent Select Committee for Intelligence (HPSCI) requested an IBS Implementation Plan, which was approved by the Assistant Secretary for Defense for Command, Control, Communications and Intelligence (ASD/C3I) (ref (i)) on 24 October 1995. The JTT was included as part of the solution in the Implementation Plan. The JTT program Operational Requirements Document (ORD) was signed on 24 September 1996. Subsequent updates in March 2005 and November 2017 were made to reflect changes in interoperability/Net Readiness certifications and Post Milestone C enhancements respectively. Additional fact of life administrative changes were made and the updated ORD was signed on 25 April 2018. The JTT is integrated into platforms that have a requirement to interact (transmit and/or receive) with the IBS Common Interactive Broadcast (CIB). The legacy IBS Terminals will reach sustainment end-of-life in FY2027. The procurement of a post-Milestone C replacement was initiated to replace the end-of-life systems, leverage updated technology, and enable flexible configurations to meet Joint customer operational needs. The procurement for a modernized Non-Developmental Item terminal will access multiple vendors by leveraging competitively awarded contracts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0305179A / Integrated Broadcast Service (IBS)				EF4 / Integrated Broadcast System							
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
User Support	MIPR	ICOE : Fort Huachuca, AZ	0.046	-		-		-		-		-	0.000	0.046	-
Project Management Support	Allot	PM DCGS-A : APG, MD; Fort Huachuca, AZ	0.075	-		-		-		-		-	0.000	0.075	-
FY 2018 NDAA SEC 825 MDAP Cost Overrun	Allot	PM DCGS-A : APG, MD	0.002	-		-		-		-		-	0.000	0.002	-
Subtotal			0.123	-		-		-		-		-	0.000	0.123	N/A
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IBS Modernization	MIPR	TBD : TBD	0.448	-		-		4.930	Jan 2022	-		4.930	0.000	5.378	-
Integration and Testing of JTT fleet Modernization	MIPR	JITC : Fort Huachuca, AZ; APG,MD	0.629	0.459		0.382	Jun 2021	0.500	Jun 2022	-		0.500	0.000	1.970	-
Subtotal			1.077	0.459		0.382		5.430		-		5.430	0.000	7.348	N/A
Project Cost Totals			1.200	0.459		0.382		5.430		-		5.430	0.000	7.471	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Next Generation IBS Terminals Integration and Test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Next Generation IBS Terminals Integration and Test	2	2020	4	2022